



S.A.P.D. Jain Pathashala

Walchand Institute of Technology, Solapur

An Autonomous Institute

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Department of Civil Engineering Lab Details

Laboratory Name:	Structural Dynamics Lab
Lab Description	Simulation of various ground motions to study the performance of structures such as, <ol style="list-style-type: none">1. Base isolation study2. Effectiveness of retrofitting3. Identification of liquefaction potential of soil4. Soil structure Interaction5. Soil pile interaction
Lab Equipment	The laboratory is developed with the help of financial assistance of AICTE under the Research Promotion Scheme (RPS), File No. 20/AICTE/ RIFD/RPS (POLICY- III)33/2012-13. This laboratory is well equipped for dynamic experimentation with the help of a servo-hydraulic Uniaxial Shake Table. Shake Table is of size 2m x 2m having a payload capacity of 30 kN. This facility simulates various kinds of motion such as sine, ramp, pulse, etc. Simulating the real past earthquake is also possible by providing time history data to the machine.
Lab Floor Area in square meters	70
Practicals Engaged in Lab	<ol style="list-style-type: none">1. Evaluation of the seismic performance of the building frame considering soil-structure interaction2. Effectiveness of alternate bracing system of composite building frames considering soil-structure interaction.3. Evaluation of the time period of structures by various approaches
Name of Lab In-charge	Dr. Mahesh Girmallappa Kalyanshetti

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Associated Faculty with the lab	1. Mr. Chetan Gourishankar Konapure 2. Mr. Prashant Vishwanath Dhanshetti
Name of Lab Assistant	Mr. Arvind D Kalpavruksha
Name/s of Menial Staff	Mr. Jain. G.C